		Pushing the Env	elope		
		2000 Mathemat			
		Model Academic St	andards		
Wisconsin Mathematics					
Grades 5-8					
Activity/Lesson	State	Standards			
Types of Engines (Writing and evaluating formulas (including		
pgs. 11-23)	WI	MA.5-8.F.8.4.c	solving for a specified variable).		
Chemistry (pgs. 25-			Writing and evaluating formulas (including		
41)	WI	MA.5-8.F.8.4.c	solving for a specified variable).		
Physics and Math			Using appropriate symbolism, including		
(pgs. 43-63)	WI	MA.5-8.F.8.1.a	exponents and variables.		
(1-0			Describing and interpreting their graphical		
Physics and Math			representations (e.g., slope, rate of change,		
(pgs. 43-63)	WI	MA.5-8.F.8.2.b	intercepts).		
Physics and Math			Writing and evaluating formulas (including		
(pgs. 43-63)	WI	MA.5-8.F.8.4.c	solving for a specified variable).		
Rocket Activity (pgs.		100 000 100 110	Writing and evaluating formulas (including		
69-75)	WI	MA.5-8.F.8.4.c	solving for a specified variable).		
00 10)		100 000 100 110	berring for a opcomed variable).		
		Pushing the Env	elone		
		2000 Mathemat			
		Model Academic St			
Wisconsin Mathema	tice	Woder Academic of			
Grades 9-12					
Activity/Lesson	State	Standards			
Activity/Ecoson	Otate	Otanidards	Determine measurements indirectly*, using		
Types of Engines (MA.9-	formulas in applications (e.g., for compound		
pgs. 11-23)	WI	12.D.12.3.d	interest, distance formula).		
pgs. 11-23)	VVI	12.D.12.3.u	Use mathematical functions* (e.g., linear*,		
			exponential*, quadratic*, power) in a variety of		
			ways, including translating different forms of		
Types of Engines /		MA.9-			
Types of Engines (14/1	12.F.12.2.b	representing them (e.g., tables, graphs,		
pgs. 11-23)	WI	12.7.12.2.0	functional notation, formulas). Identify, describe, and use derived attributes		
Chamieta / naa 25					
Chemistry (pgs. 25-	\A/I	MA 0 40 D 40 4	(e.g., density, speed, acceleration, pressure) to		
41)	WI	MA.9-12.D.12.1	represent and solve problem situations.		
Chamieta /assa 05		NAA O	Determine measurements indirectly*, using		
Chemistry (pgs. 25-		MA.9-	formulas in applications (e.g., for compound		
41)	WI	12.D.12.3.d	interest, distance formula).		
			Determine measurements indirectly*, using		
01 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			geometric formulas to derive lengths, areas, or		
Chemistry (pgs. 25-		MA.9-	volumes of shapes and objects (e.g., cones,		
41)	WI	12.D.12.3.e	parallelograms, cylinders, pyramids).		
			Use mathematical functions* (e.g., linear*,		
			exponential*, quadratic*, power) in a variety of		
			ways, including translating different forms of		
Chemistry (pgs. 25-		MA.9-	representing them (e.g., tables, graphs,		
41)	WI	12.F.12.2.b	functional notation, formulas).		

Physics and Math (pgs. 43-63)	WI	MA.9- 12.B.12.2.d	Use mathematical functions* (e.g., linear*, exponential*, quadratic*, power) in a variety of ways, including using appropriate technology to interpret properties of their graphical representations (e.g., intercepts, slopes, rates of change, changes in rates of change, maximum, minimum). Determine measurements indirectly*, using
Physics and Math (pgs. 43-63)	WI	MA.9- 12.D.12.3.d	formulas in applications (e.g., for compound interest, distance formula).
Physics and Math (pgs. 43-63)	WI	MA.9- 12.F.12.2.b	Use mathematical functions* (e.g., linear*, exponential*, quadratic*, power) in a variety of ways, including translating different forms of representing them (e.g., tables, graphs, functional notation, formulas).
Physics and Math (pgs. 43-63)	WI	MA.9- 12.F.12.2.c	Use mathematical functions* (e.g., linear*, exponential*, quadratic*, power) in a variety of ways, including describing the relationships among variable quantities in a problem.
Physics and Math (pgs. 43-63)	WI	MA.9- 12.F.12.2.d	Use mathematical functions* (e.g., linear*, exponential*, quadratic*, power) in a variety of ways, including using appropriate technology to interpret properties of their graphical representations (e.g., intercepts, slopes, rates of change, changes in rates of change, maximum, minimum).
Rocket Activity (pgs. 69-75)	WI	MA.9- 12.D.12.3.d	Determine measurements indirectly*, using formulas in applications (e.g., for compound interest, distance formula).
Rocket Activity (pgs. 69-75)	WI	MA.9- 12.F.12.2.b	Use mathematical functions* (e.g., linear*, exponential*, quadratic*, power) in a variety of ways, including translating different forms of representing them (e.g., tables, graphs, functional notation, formulas).